542-007-4

Proposed Class:

Subclass:

HOLESO, EAGEROUL

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class' 2, subclass 129.' " M.P.E.P., § 601, 7th ed.

TRANSMITTAL LETTER TO THE UNITED STATES ELECTED OFFICE (EO/US) (ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

PCT/JP01/06285 19 July	7 2001 24 July 2000	
INTERNATIONAL APPLICATION NO. INTERNATIONAL APPLICATION NO. INTERNATIONAL APPLICATION NO. INTERNATIONAL APPLICATION NO.	RNATIONAL FILING DATE RRAY SUBSTRATE OF LIQUID CRYSTAL DISPLAY	DEVICE
TITLE OF INVENTION Ryouta MATSUBARA APPLICANT(S)		
Box PCT Assistant Commissioner for Patents Washington D.C. 20231 ATTENTION: EO/US		
(When using Express Mail, the	R 37 C.F.R. §§ 1.8(a) and 1.10* Express Mail label number is mandatory; certification is optional.)	
I hereby certify that, on the date shown below, thi	is correspondence is being:	
	MAILING	
deposited with the United States Postal Servi for Patents, Washington, D.C. 20231	ce in an envelope addressed to the Assistant Commissioner	
37 C.F.R. § 1.8(a)	37 C.F.R. § 1.10 *	
with sufficient postage as first class mail.	as "Express Mail Post Office to Addressee" Mailing Label No. <u>EV005526062US</u> (mandatory)	
TR	ANSMISSION	
☐ facsimile transmitted to the Patent and Trader Date: 3/21/02	Signature Signature	
Date:	Judith Schick (type or print name of person certifying)	

* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

(Transmittal Letter to the United States Elected Office (EO/US) [13-18]-page 1 of 9)



- NOTE: To avoid abandonment of the application, the applicant shall furnish to the USPTO, not later than 20 months from the priority date: (1) a copy of the international application, unless it has been previously communicated by the International Bureau or unless it was originally filed in the USPTO; and (2) the basic national fee (see 37 C.F.R. § 1.492(a)). The 30-month time limit may not be extended. 37 C.F.R. § 1.495.
- WARNING: Where the items are those which can be submitted to complete the entry of the international application into the national phase are subsequent to 30 months from the priority date the application is still considered to be in the international state and if mailing procedures are utilized to obtain a date the express mail procedure of 37 C.F.R. § 1.10 must be used (since international application papers are not covered by an ordinary certificate of mailing—See 37 C.F.R. § 1.8.
- NOTE: Documents and fees must be clearly identified as a submission to enter the national state under 35 U.S.C. § 371 otherwise the submission will be considered as being made under 35 U.S.C. § 111. 37 C.F.R. § 1.494(f).
- I. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. § 371:
 - a.
 \(\sumeq \)
 This express request to immediately begin national examination procedures (35 U.S.C. § 371(f)).
 - b. The U.S. National Fee (35 U.S.C. § 371(c)(1)) and other fees (37 C.F.R. § 1.492) as indicated below:

2. Fees

CLAIMS	(1) FOR	(2) NUMBER	(3) NUMBER	(4) RATE	(5) CALCULA-			
FEE	(1,7 1 0 11	FILED	EXTRA		TIONS			
□ •	TOTAL	14						
	CLAIMS	•	a.					
		16 ₋₂₀₌		× \$18.00=	\$			
	INDEPENDENT		٠,					
	CLAIMS	<i></i>	,					
		4 -3≈		× \$84.00≈	\$ 84.00			
	MULTIPLE DEP	ENDENT CLAIM(S) (if	applicable)	+ \$280.00				
BASIC FEE**	U.S. PTO W	AS INTERNATIONAL	PRELIMINARY EX	AMINATION				
	AUTHORITY							
	ľ	iternational prelimina	•					
	U.S. PTO:	as been paid on the	тетанопат аррі	ication to the				
	☐ aı	nd the international p						
		ates that the criteria						
	1	bviousness) and indu rticle 33(1) to (4) have						
	3	aims presented in th						
	I .	ational stage (37 C.F. nd the above require	•					
		1.492(a)(1))						
	DE U.S. PTO W.	AS NOT INTERNATIO						
		ON AUTHORITY Iternational prelimina	ry examination fe	e as set forth				
	in § 1.482 h							
	PTO:	I search fee as set for	1101 III 9 1.440(a)(a	ej to the o.s.				
		as not been paid (37 there a search report						
}	h	as been prepared by	the European Pat					
}		ne Japanese Patent (1.492(a)(5))		egan na				
	3	\$ 890.00						
			Total of abo	ve Calculations	= \$ 974.00			
SMALL	Reduction by 1/2 for filing by small entity, if applicable. Assertion							
ENTITY	must be made. (note 37 C.F.R. § 1.27)							
	\$ 974.00							
			Tot	tal National Fee	\$ 974.00			
Fee for recording the enclosed assignment document \$40.00 (37								
	C.F.R. § 1.21(h)] COVER SHEET"	. (See Item 13 below). See attached "/	ASSIGNMENT	\$ 40.00			
		· 		I Para a color d				
TOTAL			Total	Fees enclosed	\$ 1014.00			

*See attached Preliminary Amendment Reducing the Number of Claims.
☐ Attached is a ☐ check ☐ money order in the amount of \$
Authorization is hereby made to charge the amount of \$
to Deposit Account No
to Credit card as shown on the attached credit card information authorization form PTO-2038.
WARNING: Credit card information should not be included on this form as it may become public.
Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.
A duplicate of this paper is attached.
"To avoid abandonment of the application the applicant shall furnish to the United States Patent and Trademark Office not later than the expiration of 30 months from the priority date: " * * (2) the basic national fee (see § 1.492(a)). The 30-month time limit may not be extended." 37 C.F.R. § 1.495(b).
WARNING: If the translation of the international application and/or the oath or declaration have not been submitted by the applicant within thirty (30) months from the priority date, such requirements may be met within a time period set by the Office. 37 C.F.R. § 1.495(b)(2). The payment of the surcharge set forth in § 1.492(e) is required as a condition for accepting the oath or declaration later than thirty (30) months after the priority date. The payment of the processing fee set forth in § 1.492(f) is required for acceptance of an English translation later thirty (30) months after the priority date. Failure to comply with these requirements will result in abandonment of the application. The provisions of § 1.136 apply to the period which is set. Notice of Jan. 3, 1993, 1147 O.G. 29 to 40.
☐ Assertion of Small Entity Status
☐ Applicant hereby asserts status as a small entity under 37 C.F.R. § 1.27.
NOTE: 37 C.F.R. § 1.27(c) deals with the assertion of small entity status, whether by a written specific declaration thereof or by payment as a small entity of the basic filing fee or the fee for the entry into the national phase as states:
"(c) Assertion of small entity status. Any party (person, small business concern or nonprofit organization) should make a determination, pursuant to paragraph (f) of this section, of entitlement to be accorded small entity status based on the definitions set forth in paragraph (a) of this section, and must, in order to establish small entity status for the purpose of paying small entity fees, actually make an assertion of entitlement to small entity status, in the manner set forth in paragraphs (c)(1) or (c)(3) of this section, in the application or patent in which such small entity fees are to be paid.
(1) Assertion by writing. Small entity status may be established by a written assertion of entitlement to small entity status. A written assertion must:
(i) Be clearly identifiable;
(ii) Be signed (see paragraph (c)(2) of this section); and
(iii) Convey the concept of entitlement to small entity status, such as by stating that applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required to assert small entity status, the intent to assert small entity status must be clearly indicated in order to comply with the assertion requirement.
(2) Parties who can sign and file the written assertion. The written assertion can be signed by:
(i) One of the parties identified in §§ 1.33(b) (e.g., an attorney or agent registered with the Office), §§ 3.73(b) of this chapter notwithstanding, who can also file the written assertion;
(ii) At least one of the individuals identified as an inventor (even though a §§ 1.63 executed oath or declaration has not been submitted), notwithstanding §§ 1.33(b)(4), who can also file the written assertion pursuant to the exception under §§ 1.33(b) of this part; or
(iii) An assignee of an undivided part interest, notwithstanding §§ 1.33(b)(3) and 3.73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under §§ 1.33(b) of this part.

(Transmittal Letter to the United States Elected Office (EO/US) [13-18]--page 4 of 9)



(3) Assertion by payment of the small entity basic filing or basic national fee. The payment, by any party, of the exact amount of one of the small entity basic filing fees set forth in §§ 1.16(a), (f), (g), (h), or (k), or one of the small entity basic national fees set forth in §§ 1.492(a)(1), (a)(2), (a)(3), (a)(4), or (a)(5), will be treated as a written assertion of entitlement to small entity status even if the type of basic filing or basic national fee is inadvertently selected in error.

(i) If the Office accords small entity status based on payment of a small entity basic filing or basic national fee under paragraph (c)(3) of this section that is not applicable to that application, any balance of the small entity fee that is applicable to that application will be due along with the appropriate surcharge set forth in §§ 1.16(e), or §§ 1.16(f).

(ii) The payment of any small entity fee other than those set forth in paragraph (c)(3) of this section (whether in the exact fee amount or not) will not be treated as a written assertion of entitlement to small entity status and will not be sufficient to establish small entity status in an application or a patent."

3.

A copy of the International application as filed (35 U.S.C. § 371(c)(2)):

NOTE: Section 1.495 (b) was amended to require that the basic national fee and a copy of the international application must be filed with the Office by 30 months from the priority date to avoid abandonment.

	ac cc de ap no	ccord ommu esign oplica otice	lance unicati ated c ant de from t	with F ion to offices sires t he Inte	Direct Article 20. At the same time, the International Bureau notifies applicant of the the Office. In accordance with PCT Rule 47.1, that notice shall be accepted by all as conclusive evidence that the communication has duly taken place. Thus, if the content the national stage, the applicant normally need only check to be sure the mational Bureau has been received and then pay the basic national fee by 30 months ate." Notice of Jan. 7, 1993, 1147 O.G. 29 to 40, at 35-36. See item 14c below.
		a.	\square K	is tr	ansmitted herewith.
		b.			ot required, as the application was filed with the United States eiving Office.
		c.		has	been transmitted
			i.		by the International Bureau.
					Date of mailing of the application (from form PCT/1B/308):
			ii.		by applicant on (Date)
4.	X		_		of the International application into the English language 371(c)(2)):
		a.	X	is tr	ansmitted herewith.
		b.	П	is n	ot required as the application was filed in English.

c.

was previously transmitted by applicant on _____

d. will follow.

(Transmittal Letter to the United States Elected Office (EO/US) [13-18]-page 5 of 9)

.. (Date)

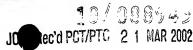
 Amendments to the claims of the International application under PCT Arti (35 U.S.C. § 371(c)(3)): 							
NOT	p c s	The No and co priority to so submit an am	otice of ntinui date will no that s	of Janu ing pre and to ot resu subject ent u	pary 7, 1993 points out that 37 C.F.R. § 1.495(a) was amended to clarify the existing actice that PCT Article 19 amendments must be submitted by 30 months from the his deadline may not be extended. The Notice further advises that: "The failure to all tin loss of the subject matter of the PCT Article 19 amendments. Applicant may transfer in a preliminary amendment filed under section 1.121. In many cases, filing inder section 1.121 is preferable since grammatical or idiomatic errors may be D.G. 29-40, at 36.		
		a.		are	transmitted herewith.		
		b.		hav	e been transmitted		
			i.		by the International Bureau.		
					Date of mailing of the amendment (from form PCT/1B/308):		
					(5.4.)		
			ii.		by applicant on (Date)		
		C.		hav	e not been transmitted as		
			i.		applicant chose not to make amendments under PCT Article 19. Date of mailing of Search Report (from form PCT/ISA/210.):		
			ii.		the time limit for the submission of amendments has not yet expired. The amendments or a statement that amendments have not been made will be transmitted before the expiration of the time limit under PCT Rule 46.1.		
6.		A translation of the amendments to the claims under PCT Article 19 (38 U.S.C. § 371(c)(3)):					
		a.		is to	ransmitted herewith.		
		b.		is n	ot required as the amendments were made in the English language.		
		c.		has	not been transmitted for reasons indicated at point 5(c) above.		
7.		A	сору	of th	ne international examination report (PCT/IPEA/409)		
				is t	ransmitted herewith.		
					not required as the application was filed with the United States beiving Office.		
8.		An	nex(es) to	the international preliminary examination report		
		a.		is/a	re transmitted herewith.		
		b.			re not required as the application was filed with the United States eiving Office.		
9.		Αt	trans	latior	of the annexes to the international preliminary examination report		
		a.		is t	ransmitted herewith.		
		b.		is n	ot required as the annexes are in the English language.		
				Œτ	anemittal Letter to the United States Flected Office (FO/US) [13-18]nage 6 of 9)		

	10. 🛆	An oath or declaration of the inventor (35 U.S.C. § 371(c)(4)) complying with 35 U.S.C. § 115					
		a.		was	s previously submitted by applicant on (Date)		
		b.	X	is s	submitted herewith, and such oath or declaration		
			i.	嶅	is attached to the application.		
			ii.		identifies the application and any amendments under PCT Article 19 that were transmitted as stated in points 3(b) or 3(c) and 5(b); and states that they were reviewed by the inventor as required by 37 C.F.R. § 1.70.		
		c.		will	follow.		
	II. Other of	docu	ımen	t(s) c	or information included:		
	11. 🛚				onal Search Report (PCT/ISA/210) or Declaration under 17(2)(a):		
		a.	X	is t	ransmitted herewith.		
		b.		has	been transmitted by the International Bureau.		
				Dat	e of mailing (from form PCT/IB/308):		
		C.			ot required, as the application was searched by the United States rnational Searching Authority.		
<u> </u>		d.		will	be transmitted promptly upon request.		
		e.		has	been submitted by applicant on (Date)		
	12. 🔯	An	Info	rmati	ion Disclosure Statement under 37 C.F.R. §§ 1.97 and 1.98:		
n T		a.	X	is t	ransmitted herewith.		
Ď	Als	o tra	ansm	itted	herewith is/are:		
				Ø	Form PTO-1449 (PTO/SB/08A and 08B).		
11				囚	Copies of citations listed.		
		b.			be transmitted within THREE MONTHS of the date of submission requirements under 35 U.S.C. § 371(c).		
Ų		C.		was	s previously submitted by applicant on (Date)		
*	13. 街	An	assi	gnm	ent document is transmitted herewith for recording.		
		☑ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPA- / PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.					
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
				(Tr	ansmittal Letter to the United States Elected Office (EO/US) [13-18]-page 7 of 9)		



14. 🔞	a. [] b. 🖄 i. ii.	International Publication No. WO 02/08824 A1 Specification, claims and drawing Front page only Preliminary amendment (37 C.F.R. § 1.121)
15. 街	The ab	pove checked items are being transmitted
	a. 🛚	before 30 months from any claimed priority date.
	b. 🗆	after 30 months.
16. 🗆		n requirements under 35 U.S.C. § 371 were previously submitted by the ant on, namely:
	AU	JTHORIZATION TO CHARGE ADDITIONAL FEES
WARNING		ately count claims, especially multiple dependant claims, to avoid unexpected high charges a claims are authorized.
o a c a fo ir n	r future rej s incorpor harge all i construct or an exter i § 1.17(request may be submitted in an application that is an authorization to treat any concurrent ply, requiring a petition for an extension of time under this paragraph for its timely submission, rating a petition for extension of time for the appropriate length of time. An authorization to required fees, fees under § 1.17, or all required extension of time fees will be treated as two petition for an extension of time in any concurrent or future reply requiring a petition insion of time under this paragraph for its timely submission. Submission of the fee set forth a) will also be treated as a constructive petition for an extension of time in any concurrent ring a petition for an extension of time under this paragraph for its timely submission." 37 .136(a)(3).
n	easonable	of twenty-five dollars or less will not be returned unless specifically requested within a time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may d by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).
☐ Ple ma	ase cha y be red	arge, in the manner authorized above, the following additional fees that quired by this paper and during the entire pendency of this application:
		F.R. § 1.492(a)(1), (2), (3), and (4) (filing fees)
WARNING	G: Becau results	ise failure to pay the national fee within 30 months without extension (37 C.F.R. § 1.495(b)(2)) in abandonment of the application, it would be best to always check the above box.

(Transmittal Letter to the United States Elected Office (EO/US) [13-18]-page 8 of 9)



			JULI TECU PSI/PIG 2 I MAR 200
		37 C.F.R. § 1.492(o), (c) and (d) (presentation of extra claims)
NOTE:	must only set for res	be paid or these claims car sponse by the PTO in any n sorize the PTO to charge addi	ultiple dependent claims not paid on filing or on later presentation ncelled by amendment prior to the expiration of the time period otice of fee deficiency (37 C.F.R. § 1.492(d)), it might be best tional claim fees, except possible when dealing with amendments
		37 C.F.R. § 1.17 (a	application processing fees)
		37 C.F.R. § 1.17(a)	(1)-(5) (extension fees pursuant to § 1.136(a).
		37 C.F.R. § 1.18 (is pursuant to 37 C.F.	sue fee at or before mailing of Notice of Allowance, .R. § 1.311(b))
NOTE:	of a Notice	•	ssue fee to a deposit account has been filed before the mailing will be automatically charged to the deposit account at the time C.F.R. § 1.311(b).
NOTE:	be filed in a of 37 C.F.F.	the application prior to p R. § 1.28(b): (a) notification o	on of any change in loss of entitlement to small entity status must paying, or at the time of payingissue fee." From the wording of change of status must be made even if the fee is paid as "other ation is required if the change is to another small entity.
		and/or filing an Eng	e) and (f) (surcharge fees for filing the declaration plish translation of an International Application later er the priority date).
			SIGNATURE OF PRACTITIONER
Reg. No.	. 28	,116	
			Stephen B. Shear
Tel. No.:	(203)	261-1234	(type or print name of practitioner) WARE, FRESSOLA, VAN DER SLUYS & ADOLPHSON LLP Bradford Green, Building Five
Custome	r No.:	004955	P.O. Address

755 Main St., P.O. Box 224 Monroe, CT 06468

		542-007-4	
en titl n r	Do ket I		TD/

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK FFICE Pra titi n r

In re application of:

Matsubara

Application No.: 0

Filed:

For:

METHOD FOR MANUFACTURING TFT ARRAY SUBSTRATE OF LIQUID CRYSTAL +

Assistant Commissioner for Patents Washington, D.C. 20231

EXPRESS MAIL CERTIFICATE

EV005526062US "Express Mail" label number -3/21/02 Info. Disclosure Statement & refs.

I hereby state that the following attached paper or fee Date of Deposit

Self addressed stamped post card

Transmittal Nat. Phase Chap II

Check no. 18820 Dwgs. 13 sheets

Spec. - 23 pgs.

Claims - 7 pgs.

Abstract - 1 pg.

Decl. & Power of Atty.

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Typed or printed name of person mailing paper or fee

Signature of person mailing paper or fee

NOTE: The label number need not be placed on each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter for a fee, along with the certificate of mailing by "Express Mail." Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is placed. (Express Mail Certificate [8-3])